

Expected levels	Exceeding the expected levels
<p>Recall the 7 characteristics of living things. Classify living organisms based on observable features in different ways. Explain why scientists need to sort a vast array of living things. Know what a complex classification system is. Name the three main groups of living things.</p>	<p>Explain why animals were placed at a higher level. Explain why human beings were placed at the top of the ladder. Identify the difference between a simple and a complex classification system.</p>
<p>Know what micro organisms are. State examples.</p>	<p>Know that microbes were not included in Carl Linnaeus’s classification.</p>
<p>Know that there are lots of microbes living in and on other animals. Name some places ideal for investigating growth of microbes. Identify the effects of bacteria on food and our bodies.</p>	<p>Explain how micro-organisms can cause food poisoning.</p> <p>List examples of microorganisms.</p>
<p>Know that there are large numbers of bacteria in our bodies. Know a few examples involving helpful bacteria and yeast. Identify what makes bread rise. Identify a few factors which cause mould to grow well.</p>	<p>Describe and explain the role of bacteria and yeast in food production. Plan an investigation to find out the suitable conditions for the growth of mould.</p>
<p>Explain how dead plants and animals decay in the soil. Explain the role of micro organisms in making compost. Realise the effect of microbes on the soil and explain how it helps.</p>	<p>Describe how gardeners make compost.</p> <p>Explain why landfill sites are needed.</p>
<p>Identify the safety precautions we need to take so that we are not affected by harmful microbes. Describe how food must be stored correctly.</p>	<p>Explain why food must be stored correctly. Explore methods to preserve different foods.</p>
<p>Recall the characteristics of all plants. Know that plants are divided into flowering and non flowering and state a few examples. Classify plants further with different features.etc. Develop a classification key for different plants. Describe the features of buttercups. Describe and draw a buttercup. Discuss the slight variations between different buttercup plants.</p>	<p>Develop a classification key for a variety of plants.</p> <p>Explain the variation in different buttercup plants.</p>
<p>Identify different classes of vertebrates and state a few characteristics of each with examples.</p>	<p>State many characteristics of each.</p>
<p>Describe the classification of invertebrates into arthropods, mollusks and worms and identify the features of each with examples. Describe the classification of arthropods into insects, spiders and myriapods and describe the features of each with examples. Explore different types of earthworms.</p>	<p>State many characteristics of each group.</p> <p>Identify key features such as the saddle and the head of an earthworm.</p>
<p>Use and create a classification key to identify common animals.</p>	<p>Create a classification key to identify a few strange creatures and plants.</p>

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<p>Know that an organ system consists of different organs which do a particular job. Identify the body systems such as circulatory, digestive, skeletal, muscular, nervous and respiratory system.</p> <p>Describe the components and working of circulatory system, digestive system, skeletal and muscular system and nervous system.</p>	<p>Describe how different body systems work together to enable us to carry out different activities.</p>
<p>Name the main parts of the human circulatory system. Locate the position of the heart and the ribs. Know the heart is a major organ made of muscle and that it pumps blood around the body. Explain why the heart needs to be protected by the ribs. Know that average heart beat.</p>	<p>Identify the four components in blood and state their functions.</p>
<p>Name the three different types of blood vessels. Differentiate between them. Describe how blood is transported through the blood vessels. Differentiate between an artery and a vein.</p>	<p>Understand that nutrients are the chemical components of food that our body uses to live, grow and repair itself.</p>
<p>Identify and name the main parts of the circulatory system. Describe the blood's double loop journey through the circulatory system in detail. Know that the oxygen provides fuel for muscles and organs. Know that oxygenated blood is bright red and deoxygenated blood is darker red in colour.</p>	<p>Draw the route of blood through the body.</p> <p>Explain why circulatory system is said to be a closed system.</p>
<p>Know what pulse rate is and recognize which factors affect the pulse rate. Explain why pulse rate might increase during exercise. Investigate the impact of exercise on the pulse rate.</p>	<p>Justify why the pulse rate takes time to go back to normal after exercise. Find ways to reduce their pulse rate.</p>
<p>Know the different food groups, their function in the body and their sources. Describe what a balanced diet is and why it is important.</p>	<p>Explain the importance of water and fibre in daily meals. Identify a weight reducing diet and a diet to keep the body healthy.</p>
<p>Recognize the impact of drugs and lifestyle on the way their bodies function. Define a drug as something that affects how the body works.</p> <p>Discuss the difference between drugs and medicines. Give examples. State the harmful effects of nicotine, alcohol and coffee.</p>	<p>Identify positive aspects of elements of a healthy lifestyle.</p> <p>Identify negative aspects of not eating healthily, not taking exercise and/or getting addicted to drinking too much alcohol or smoking.</p>